

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072722\
 Data File : VN073600.D
 Acq On : 27 Jul 2022 11:55
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/28/2022
 Supervised By : Mahesh Dadoda 07/28/2022

Quant Time: Jul 27 13:10:34 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 27 13:09:03 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.586	128	51811	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	268349	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.686	117	253000	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	139531	28.455	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.867%		
60) 4-Bromofluorobenzene	12.674	95	132055	27.583	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	91.933%		
63) Toluene-d8	10.380	98	442810	31.908	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	106.367%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	70735	18.032	ug/l	98
3) Chloromethane	2.269	50	97687	23.995	ug/l	100
4) Vinyl Chloride	2.404	62	115367	29.559	ug/l	98
5) Bromomethane	2.810	94	67204	43.962	ug/l	98
6) Chloroethane	2.975	64	78900	31.866	ug/l	97
7) Trichlorofluoromethane	3.322	101	111181	18.042	ug/l	97
8) Diethyl Ether	3.763	74	42958	17.296	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.140	101	66696	19.313	ug/l #	69
10) 1,1-Dichloroethene	4.116	96	62750	18.037	ug/l	96
11) Methyl Iodide	4.351	142	67928	19.596	ug/l	91
12) Methyl Acetate	4.781	43	109412	15.531	ug/l	94
13) Acrolein	3.981	56	96954	123.133	ug/l	95
14) Acrylonitrile	5.475	53	257096	92.605	ug/l	96
15) Acetone	4.228	58	70238	92.582	ug/l	87
16) Carbon Disulfide	4.457	76	171428	18.423	ug/l	97
17) Allyl chloride	4.763	41	103742	15.965	ug/l	89
18) Methylene Chloride	5.016	84	79616	18.924	ug/l	96
19) trans-1,2-Dichloroethene	5.522	96	70375	18.946	ug/l	98
20) Diisopropyl ether	6.410	45	232636	16.913	ug/l	97
21) 1,1-Dichloroethane	6.310	63	136465	18.540	ug/l	100
22) cis-1,2-Dichloroethene	7.251	96	82093	18.603	ug/l	99
23) tert-Butyl Alcohol	5.281	59	86594	78.278	ug/l #	100
24) Methyl tert-Butyl Ether	5.534	73	218770	17.062	ug/l	95
25) Chloroform	7.745	83	144036	19.479	ug/l	99
26) Cyclohexane	8.028	56	115350	18.016	ug/l #	99
29) 1,1-Dichloropropene	8.151	75	98759	20.135	ug/l	98
30) 2-Butanone	7.257	43	348558	94.573	ug/l	100
31) 2,2-Dichloropropane	7.251	77	102862	35.248	ug/l	100
32) 1,1,1-Trichloroethane	7.939	97	116551	19.525	ug/l	97
33) Carbon Tetrachloride	8.133	117	97017	19.274	ug/l	98
34) Benzene	8.392	78	327965	21.366	ug/l	99
35) Methacrylonitrile	7.569	41	63437	19.310	ug/l	95
36) 1,2-Dichloroethane	8.463	62	109648	19.629	ug/l	96
37) Trichloroethene	9.151	130	77330	20.293	ug/l	99
38) Methylcyclohexane	9.392	83	119148	20.521	ug/l	96
39) 1,2-Dichloropropane	9.428	63	83211	20.980	ug/l	100
40) Dibromomethane	9.516	93	56031	20.925	ug/l	93
41) Bromodichloromethane	9.698	83	108845	20.209	ug/l	98
42) Vinyl Acetate	6.351	43	991854	87.991	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.334	43	123492	18.216	ug/l	94
44) Isopropyl Acetate	8.492	43	181198	17.123	ug/l	97
45) 1,4-Dioxane	9.504	88	43588	437.800	ug/l	97
46) Methyl methacrylate	9.498	41	79872	16.624	ug/l	84
47) n-amyl Acetate	12.327	43	136479	16.146	ug/l	94
48) t-1,3-Dichloropropene	10.663	75	103061	20.318	ug/l	98
49) cis-1,3-Dichloropropene	10.127	75	119820	21.586	ug/l #	88
50) 1,1,2-Trichloroethane	10.839	97	81701	21.023	ug/l	97
51) Ethyl methacrylate	10.704	69	118100	18.437	ug/l	88
52) 1,3-Dichloropropane	10.986	76	137834	20.623	ug/l	98
53) Dibromochloromethane	11.174	129	81228	20.056	ug/l	99
54) 1,2-Dibromoethane	11.286	107	82311	20.252	ug/l	95
55) 2-Chloroethyl vinyl ether	9.980	63	270657	98.304	ug/l	99
56) Bromoform	12.398	173	59065	19.804	ug/l #	98
58) 4-Methyl-2-Pentanone	10.269	43	674461	93.604	ug/l	96
59) 2-Hexanone	11.027	43	512974	93.111	ug/l	95
61) Tetrachloroethene	10.916	164	77662	22.814	ug/l	95
62) Toluene	10.445	91	354318	20.885	ug/l	98
64) Chlorobenzene	11.710	112	203558	20.048	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.780	131	75566	19.651	ug/l	98
66) Ethyl Benzene	11.786	91	365732	19.707	ug/l	98
67) m/p-Xylenes	11.892	106	283497	40.561	ug/l	97
68) o-Xylene	12.221	106	138183	19.744	ug/l	100
69) Styrene	12.233	104	229106	20.255	ug/l	97
70) Isopropylbenzene	12.521	105	356637	19.843	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.768	83	128922	20.581	ug/l	99
72) 1,2,3-Trichloropropane	12.821	75	96959m	19.725	ug/l	
73) Bromobenzene	12.798	156	85653	20.223	ug/l	97
74) n-propylbenzene	12.863	91	409234	19.914	ug/l	99
75) 2-Chlorotoluene	12.945	91	251243	19.706	ug/l	99
76) 1,3,5-Trimethylbenzene	12.998	105	302074	20.090	ug/l	97
77) t-1,4-Dichloro-2-butene	12.568	75	35525	22.405	ug/l	94
78) 4-Chlorotoluene	13.045	91	236300	19.300	ug/l	99
79) tert-butylbenzene	13.263	119	252874	19.238	ug/l	95
80) 1,2,4-Trimethylbenzene	13.310	105	297507	20.179	ug/l #	80
81) sec-Butylbenzene	13.439	105	361898	20.143	ug/l	98
82) p-Isopropyltoluene	13.557	119	291796	20.021	ug/l	96
83) 1,3-Dichlorobenzene	13.557	146	155917	20.782	ug/l	97
84) 1,4-Dichlorobenzene	13.633	146	151789	20.332	ug/l	98
85) n-Butylbenzene	13.880	91	224336	18.872	ug/l	97
86) Hexachloroethane	14.145	117	53317	18.771	ug/l	82
87) 1,2-Dichlorobenzene	13.927	146	163872	20.855	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.545	75	27195	17.579	ug/l	89
89) 1,2,4-Trichlorobenzene	15.198	180	78171	19.072	ug/l	96
90) Hexachlorobutadiene	15.298	225	42525	24.213	ug/l	97
91) Naphthalene	15.433	128	266874	17.211	ug/l	99
92) 1,2,3-Trichlorobenzene	15.627	180	84355	20.061	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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